



MEMORANDUM

DATE: December 19, 1985  
TO: Division File  
FROM: Kenneth W. Liss *KWL*  
SUBJECT: 1630450001 - St. Clair County  
East St. Louis/Milam -- W.M.I. (SCA)  
Groundwater

US EPA RECORDS CENTER REGION 5



412317

On October 31, 1985 representatives from Waste Management, Inc. (WMI) and the Agency met at the Statehouse Inn in Springfield. The attendees and their affiliations are listed on the attached sheet. The purpose of the meeting was to discuss the groundwater monitoring proposal submitted by WMI on September 27, 1985 and address the requirements for permitting the development of the phase II B area.

Mr. McTique and Mr. Butts gave a presentation on the site's hydrology, geology and past operations. The highlights of that presentation are as follows:

- 1) During development of Old Milam (1967-1969) the clay soil was excavated to approximately 398 ft. MSL. This is indicated on contour maps drawn from aerial photographs received October 28, 1985 from WMI. Correlating this information with the boring logs there is an estimated thickness of five (5) to eight (8) feet of clay beneath the Old Milam site. Mr. McTique also stated that at certain points the clay had thinned or was over excavated to allow "boils" in the clay floor. A boil is a rupture in the clay liner caused by upward groundwater pressure.
- 2) The ponded borrow area contained a sand dredging operation near well GEI-1. This confirms the Agency's contention that the clay was penetrated and the aquifer exposed.
- 3) Dewatering of the barrel removal area on the New Milam site has temporarily change the groundwater gradient east of Cahokia Creek.
- 4) Organic sampling performed by WMI confirms the presence of contaminants in wells GEI-2 and GEI-6 detected by the Agency. WMI also detected quantities ranging from 2.96 ug/l to 96 ug/l in (6)six other wells.
- 5) Mr. O'Brien stated that the west slope of New Milam and repaired portions of Old Milam have been seeded.



After the presentation the discussion centered on the proposed groundwater monitoring program and the supplemental permit requirements for the development of phase II B. The monitoring program submitted was inadequate to properly assess or detect contaminant movement from the site. This point has been stressed in previous meetings. The following schedule was agreed to:

- 1) An adequate groundwater monitoring system to replace the current permit requirements will be submitted by November 8, 1985. The new proposal will address the inadequate downgradient spacing, vertical gradients and multilevel sampling.
- 2) A supplemental permit application for development of the phase II B area will be submitted by December 7, 1985. This submittal will include the final groundwater monitoring program.

KWL:st:3084e,43-44

cc: Compliance Correspondence Log (A)  
Paul Jagiello  
Ken Mensing  
Bill Child



Milam - WMI Meeting  
October 31, 1985

Phillip Commella  
Glen O'Bryan  
Bill McTigue  
Charlie Butts  
Martin Sara  
Dick Molenhouse  
John Rohr  
Harry Chappel  
Linda Kissinger  
Ken Mensing  
Paul Jagiello  
Mark LaRose  
Bill Freichs  
Mark Haney  
Bill Child  
Kenn Liss

WMI Counsel  
WMI  
GEI  
GEI  
WMI Corporate Grd H<sub>2</sub>O  
WMI  
WMI  
IEPA Permit  
IEPA Permit  
IEPA PWS  
IEPA Counsel  
AG Counsel  
AG Technical Advisor  
IEPA CMS  
IEPA Deputy Div. of Land  
IEPA-CMS

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